



Catherine E. Heigel, Director

*Promoting and protecting the health of the public and the environment*

January 13, 2016

KEVIN O'NEILL  
211 KING STREET, SUITE 300  
CHARLESTON, SC 29401

RE: CONSTRUCTION PERMIT NO. 39296-WW  
KIAWAH RIVER PLANTATION WWTP  
CHARLESTON COUNTY

Dear Mr. O'Neill:

Enclosed is a SC Wastewater Construction Permit for the above referenced project. Construction is to be performed in accordance with this permit and supporting engineering report, plans, and specifications approved by this Office.

This facility will be required to have an operator who has been certified by the Environmental Certification Board of the South Carolina Department of Labor, Licensing and Regulation. This facility has been classified as Group IV - Physical/Chemical, necessitating an operator holding a Grade A certificate. Questions regarding operator certifications should be directed to Ms. Molly Price, South Carolina Environmental Certification Board, P.O. Box 11409, Columbia, SC 29211, (803) 778-6548.

This system cannot be placed into operation until final approval is granted by the appropriate Bureau of Environmental Health Services (BEHS) Regional Office. Your Regional contact is Harvey Wilkins, in the Low Country Region BEHS Charleston Office. This regional office should be notified when construction begins at the following address and phone number: 1362 McMillan Avenue, Suite 300, Charleston, SC 29405, (843) 953-0150.

Upon completion of any construction, a letter must be submitted to the BEHS Regional Office from the registered engineer certifying that the construction has been completed in accordance with the approved plans and specifications. An inspection may then be scheduled. The BEHS Regional Office will approve the system for operation upon successful completion of the project.

Sincerely,

Andrew J. Edwards  
Domestic Wastewater Permitting Section  
Water Facilities Permitting Division

cc: Michael Montebello, Manager, Domestic Wastewater Permitting Section  
Harvey Wilkins, Low Country Region BEHS Charleston Office  
Mark Yodice, P.E., Thomas & Hutton, 682 Johnnie Dodds Blvd, Suite 100, Mt. Pleasant, SC 29464  
Board of Certification

# Wastewater Construction Permit Bureau of Water



PROJECT NAME: KIAWAH RIVER PLANTATION WWTP

COUNTY: CHARLESTON

LOCATION: 2501 Mullet Hall Road, Johns Island, SC 29455

PERMISSION IS HEREBY GRANTED TO: KIAWAH RIVER PLANTATION HOLDINGS, LP  
211 KING STREET  
SUITE 300  
CHARLESTON, SC 29401

for the construction of a new wastewater treatment plant in accordance with the construction plans, specifications, design calculations and the Construction Permit Application signed by Mark Yodice, Registered Professional Engineer, S.C. Registration Number: 13293.

## PROJECT DESCRIPTION:

Phase I of the wastewater treatment plant will be 110,000 gpd. Treatment processes will include primary screening, grit removal, secondary screening, anoxic and aerobic membrane bioreactors, sodium hydroxide and sodium hypochlorite feeds, prior to storage in a 3.1 million gallon lined lagoon. Wastewater effluent from the lagoon will be pumped to an adjacent 33-acre land application site where it will be applied with low trajectory spray heads at a rate not exceeding 2.0 inches/week for a total capacity of 255,750 gpd. Solids will be removed and hauled to the Oakridge Landfill.

## TREATMENT FACILITY:

The effluent will be discharged to the Kiawah River Plantation Wastewater Treatment Plant (NPDES permit ND0088897) at a design flow rate of 0 gallons per day.

The effluent concentrations of those constituents the wastewater treatment system is designed to remove or reduce are contained in NPDES permit ND0088897.

Treatment Plant Classification: Group IV - Physical/Chemical

## STANDARD CONDITION:

In accepting this permit, the owner agrees to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection. This is a permit for construction only and does not constitute DHEC approval, temporary or otherwise, to place the system in operation. An Approval to Place in Operation is required and can be obtained following the completion of construction by contacting the Low Country Region BEHS Charleston Office at (843) 953-0150. Additional permits may be required prior to construction (e.g., Stormwater).

## SPECIAL CONDITIONS:

None

PERMIT NUMBER:	39296-WW
ISSUANCE DATE:	January 13, 2016
EXPIRATION DATES:	January 13, 2017 (to begin construction) January 13, 2019 (to obtain Approval to Place in Operation)

Jeffrey P. deBessonnet, P.E., Director  
Water Facilities Permitting Division

AJE



December 16, 2016

Mark Yodice, PE  
Thomas & Hutton  
P.O. Box 1522  
Mount Pleasant, SC 29465

RE: Construction Permit 39296-WW Extension  
Kiawah River Plantation WWTP  
Charleston County

Dear Mr. Yodice:

We have received and reviewed your request dated December 8, 2016, for an extension to the expiration date to begin construction for the referenced construction permit. We understand the project is currently being redesigned to reduce construction costs, and we find this justification adequate to grant the requested extension in accordance with Regulation 61-67.300.A.16.

Please see the enclosed modified construction permit with an expiration date to begin construction by June 13, 2016. Please contact me at (803) 898-1271 or [edwardaj@dhec.sc.gov](mailto:edwardaj@dhec.sc.gov) if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "AJ Edwards", is placed above the printed name.

Andrew J. Edwards  
Domestic Wastewater Permitting Section  
Water Facilities Permitting Division

cc: Michael Montebello, Manager, Domestic Wastewater Permitting Section  
Harvey Wilkins, Low Country Region BEHS Charleston Office  
Kevin O'Neill, 211 King Street, Suite 300, Charleston, SC 29401

# Wastewater Construction Permit

## Bureau of Water



PROJECT NAME: KIAWAH RIVER PLANTATION WWTP	COUNTY: CHARLESTON
LOCATION: 2501 Mullet Hall Road, Johns Island, SC 29455	

**PERMISSION IS HEREBY GRANTED TO:** KIAWAH RIVER PLANTATION HOLDINGS, LP  
211 KING STREET  
SUITE 300  
CHARLESTON, SC 29401

for the construction of a new wastewater treatment plant in accordance with the construction plans, specifications, design calculations and the Construction Permit Application signed by Mark Yodice, Registered Professional Engineer, S.C. Registration Number: 13293.

### PROJECT DESCRIPTION:

Phase I of the wastewater treatment plant will be 110,000 gpd. Treatment processes will include primary screening, grit removal, secondary screening, anoxic and aerobic membrane bioreactors, sodium hydroxide and sodium hypochlorite feeds, prior to storage in a 3.1 million gallon lined lagoon. Wastewater effluent from the lagoon will be pumped to an adjacent 33-acre land application site where it will be applied with low trajectory spray heads at a rate not exceeding 2.0 inches/week for a total capacity of 255,750 gpd. Solids will be removed and hauled to the Oakridge Landfill.

### TREATMENT FACILITY:

The effluent will be discharged to the Kiawah River Plantation Wastewater Treatment Plant (NPDES permit ND0088897) at a design flow rate of 0 gallons per day.

The effluent concentrations of those constituents the wastewater treatment system is designed to remove or reduce are contained in NPDES permit ND0088897.

Treatment Plant Classification: Group IV - Physical/Chemical

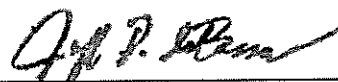
### STANDARD CONDITION:

In accepting this permit, the owner agrees to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection. This is a permit for construction only and does not constitute DHEC approval, temporary or otherwise, to place the system in operation. An Approval to Place in Operation is required and can be obtained following the completion of construction by contacting the Low Country Region BEHS Charleston Office at (843) 953-0150. Additional permits may be required prior to construction (e.g., Stormwater).

### SPECIAL CONDITIONS:

None

PERMIT NUMBER:	39296-WW
ISSUANCE DATE:	January 13, 2016
EXPIRATION DATES:	June 13, 2017 (to begin construction) January 13, 2019 (to obtain Approval to Place in Operation)

  
Jeffrey P. deBessonnet, P.E., Director  
Water Facilities Permitting Division

AJE

Modification 12/12/2016 - Permit expiration date to begin construction extended from January 13, 2017, to June 13, 2017.





March 2, 2017

Mark Yodice, PE  
Thomas & Hutton  
P.O. Box 1522  
Mount Pleasant, SC 29465

RE: Construction Permit 39296-WW Modification  
Kiawah River Plantation WWTP  
Charleston County

Dear Mr. Yodice:

We have received and reviewed your construction permit modification request dated January 19, 2017, with additional information provided in your letter of February 21, 2017. The plans submitted with your request follow the previously approved Preliminary Engineering Report – Addendum No. 01 dated November 2016, and approved on December 21, 2016.

Please see the enclosed modified construction permit. Please contact me at (803) 898-1271 or [edwardaj@dhec.sc.gov](mailto:edwardaj@dhec.sc.gov) if you have any questions.

Sincerely,

Andrew J. Edwards  
Domestic Wastewater Permitting Section  
Water Facilities Permitting Division

cc: Michael Montebello, Manager, Domestic Wastewater Permitting Section  
Harvey Wilkins, Low Country Region BEHS Charleston Office  
Kevin O'Neill, 211 King Street, Suite 300, Charleston, SC 29401

# Wastewater Construction Permit Bureau of Water



PROJECT NAME: **KIAWAH RIVER PLANTATION WWTP** COUNTY: **CHARLESTON**  
LOCATION: 2501 Mullet Hall Road, Johns Island, SC 29455

PERMISSION IS HEREBY GRANTED TO: KIAWAH RIVER PLANTATION HOLDINGS, LP  
211 KING STREET  
SUITE 300  
CHARLESTON, SC 29401

for the construction of a new wastewater treatment plant in accordance with the construction plans, specifications, design calculations and the Construction Permit Application signed by Mark Yodice, Registered Professional Engineer, S.C. Registration Number: 13293.

## PROJECT DESCRIPTION:

Phase I of the wastewater treatment plant will be 110,000 gpd. Treatment processes will include initial screening followed by membrane bioreactor treatment from a MicroBLOX modular unit by Ovivo and UV disinfection, prior to storage in a 770,000 gallon lined lagoon. Wastewater effluent from the lagoon will be pumped to an adjacent 16.65-acre land application site where it will be applied with low trajectory spray heads at a rate not exceeding 2.0 inches/week for a total capacity of 129,037 gpd. Solids will be dewatered and hauled to the Oakridge Landfill.

## TREATMENT FACILITY:

The effluent will be discharged to the Kiawah River Plantation Wastewater Treatment Plant with a design flow rate of 110,000 gallons per day. The effluent concentrations of those constituents the wastewater treatment system is designed to remove or reduce are contained in NPDES permit ND0088897.

Treatment Plant Classification: Group IV - Physical/Chemical

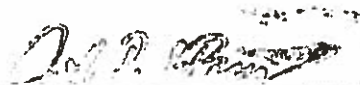
## STANDARD CONDITION:

In accepting this permit, the owner agrees to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection. This is a permit for construction only and does not constitute DHEC approval, temporary or otherwise, to place the system in operation. An Approval to Place in Operation is required and can be obtained following the completion of construction by contacting the Low Country Region BEHS Charleston Office at (843) 953-0150. Additional permits may be required prior to construction (e.g., Stormwater).

## SPECIAL CONDITIONS:

None

PERMIT NUMBER:	39296-WW
ISSUANCE DATE:	January 13, 2016
EXPIRATION DATES:	March 2, 2018 (to begin construction) March 2, 2020 (to obtain Approval to Place in Operation)

  
Jeffrey P. deBessonnet, P.E., Director  
Water Facilities Permitting Division

AJE

## Modifications:

- 12/12/2016 - Permit expiration date to begin construction extended from January 13, 2017, to June 13, 2017.
- 3/2/2017 - Project modifications for reduced Phase I cost include a smaller project footprint, UV disinfection, a smaller Phase I effluent storage lagoon, and removal of sludge holding and permanent dewatering facilities from the Phase I scope. Permit expiration dates extended, respectively.



June 13, 2017

Kevin O'Neill, Vice President  
Beach Development  
211 King Street, Suite 300  
Charleston, SC 29401

RE: Construction Permit 39296-WW Modification  
Kiawah River Plantation WWTP  
Charleston County

Dear Mr. O'Neill:

This letter is to inform you that we recently modified the referenced construction permit as the ownership has transferred from Kiawah River Plantation Holdings, LP to Kiawah River Investment, LLC.

Please see the enclosed modified construction permit. Please contact me at (803) 898-1271 or [edwardaj@dhec.sc.gov](mailto:edwardaj@dhec.sc.gov) if you have any questions.

Sincerely,

Andrew J. Edwards  
Domestic Wastewater Permitting Section  
Water Facilities Permitting Division

cc: Michael Montebello, Manager, Domestic Wastewater Permitting Section  
Harvey Wilkins, Low Country Region BEHS Charleston Office  
Mark Yodice, Thomas & Hutton

# Wastewater Construction Permit

## Bureau of Water



PROJECT NAME: <b>KIAWAH RIVER PLANTATION WWTP</b>	COUNTY: <b>CHARLESTON</b>
LOCATION: 2501 Mullet Hall Road, Johns Island, SC 29455	

**PERMISSION IS HEREBY GRANTED TO:** KIAWAH RIVER INVESTMENT, LLC  
 211 KING STREET  
 SUITE 300  
 CHARLESTON, SC 29401

for the construction of a new wastewater treatment plant in accordance with the construction plans, specifications, design calculations and the Construction Permit Application signed by Mark Yodice, Registered Professional Engineer, S.C. Registration Number: 13293.

### PROJECT DESCRIPTION:

Phase I of the wastewater treatment plant will be 110,000 gpd. Treatment processes will include initial screening followed by membrane bioreactor treatment from a MicroBLOX modular unit by Ovivo and UV disinfection, prior to storage in a 770,000 gallon lined lagoon. Wastewater effluent from the lagoon will be pumped to an adjacent 16.65-acre land application site where it will be applied with low trajectory spray heads at a rate not exceeding 2.0 inches/week for a total capacity of 129,037 gpd. Solids will be dewatered and hauled to the Oakridge Landfill.

### TREATMENT FACILITY:

The effluent will be discharged to the Kiawah River Plantation Wastewater Treatment Plant with a design flow rate of 110,000 gallons per day. The effluent concentrations of those constituents the wastewater treatment system is designed to remove or reduce are contained in NPDES permit ND0088897.

Treatment Plant Classification: Group IV - Physical/Chemical

### STANDARD CONDITION:

In accepting this permit, the owner agrees to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection. This is a permit for construction only and does not constitute DHEC approval, temporary or otherwise, to place the system in operation. An Approval to Place in Operation is required and can be obtained following the completion of construction by contacting the Low Country Region BEHS Charleston Office at (843) 953-0150. Additional permits may be required prior to construction (e.g., Stormwater).

### SPECIAL CONDITIONS:

None

<b>PERMIT NUMBER:</b>	<b>39296-WW</b>
<b>ISSUANCE DATE:</b>	<b>January 13, 2016</b>
<b>EXPIRATION DATES:</b>	<b>March 2, 2018</b> (to begin construction) <b>March 2, 2020</b> (to obtain Approval to Place in Operation)

Jeffrey P. deBessonnet, P.E., Director  
 Water Facilities Permitting Division

AJE

### Modifications:

- 12/12/2016 - Permit expiration date to begin construction extended from January 13, 2017, to June 13, 2017.
- 3/2/2017 - Project modifications for reduced Phase I cost include a smaller project footprint, UV disinfection, a smaller Phase I effluent storage lagoon, and removal of sludge holding and permanent dewatering facilities from the Phase I scope. Permit expiration dates extended, respectively.
- 6/13/2017 - Permit ownership has been transferred from Kiawah River Plantation Holdings, LP to Kiawah River Investments, LLC

Bureau of Water, DHEC, 2600 Bull Street, Columbia, SC 29201





March 26, 2019

Kevin O'Neill, Vice President  
Beach Development  
211 King Street, Suite 300  
Charleston, SC 29401

RE: Construction Permit 39296-WW Modification  
Kiawah River Plantation WWTP  
Charleston County

Dear Mr. O'Neill:

This letter is to inform you that we recently modified the referenced construction permit as the ownership has transferred from Kiawah River Investment, LLC to Kiawah River Utility Company. Additionally, the Treatment Plant Classification has been corrected to Group III – B (Biological). This classification requires an operator holding a Grade B – Biological certificate.

Please see the enclosed modified construction permit. Please contact me at (803) 898-1271 or [edwardaj@dhec.sc.gov](mailto:edwardaj@dhec.sc.gov) if you have any questions.

Sincerely,

Andrew J. Edwards, PE  
Domestic Wastewater Permitting Section  
Water Facilities Permitting Division

cc: Brenda Green, Manager, Domestic Wastewater Permitting Section  
Stephanie White, Low Country Region BEHS Charleston  
Mark Yodice, Thomas & Hutton  
Lindy Cummins, Thomas & Hutton

# Wastewater Construction Permit Bureau of Water



PROJECT NAME: KIAWAH RIVER PLANTATION WWTP	COUNTY: CHARLESTON
LOCATION: 2501 Mullet Hall Road, Johns Island, SC 29455	

PERMISSION IS HEREBY GRANTED TO: KIAWAH RIVER UTILITY COMPANY  
211 KING STREET  
SUITE 300  
CHARLESTON, SC 29401

for the construction of a new wastewater treatment plant in accordance with the construction plans, specifications, design calculations and the Construction Permit Application signed by Mark Yodice, Registered Professional Engineer, S.C. Registration Number: 13293.

## PROJECT DESCRIPTION:

Phase I of the wastewater treatment plant will be 110,000 gpd. Treatment processes will include initial screening followed by membrane bioreactor treatment from a MicroBLOX modular unit by Ovivo and UV disinfection, prior to storage in a 770,000 gallon lined lagoon. Wastewater effluent from the lagoon will be pumped to an adjacent 16.65-acre land application site where it will be applied with low trajectory spray heads at a rate not exceeding 2.0 inches/week for a total capacity of 129,037 gpd. Solids will be dewatered and hauled to the Oakridge Landfill.

## TREATMENT FACILITY:

The effluent will be discharged to the Kiawah River Plantation Wastewater Treatment Plant with a design flow rate of 110,000 gallons per day. The effluent concentrations of those constituents the wastewater treatment system is designed to remove or reduce are contained in NPDES permit ND0088897.

Treatment Plant Classification: Group III - Biological

## STANDARD CONDITION:

In accepting this permit, the owner agrees to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection. This is a permit for construction only and does not constitute DHEC approval, temporary or otherwise, to place the system in operation. An Approval to Place in Operation is required and can be obtained following the completion of construction by contacting the Low Country Region BEHS Charleston Office at (843) 953-0150. Additional permits may be required prior to construction (e.g., Stormwater).

## SPECIAL CONDITIONS:

None

PERMIT NUMBER:	39296-WW
ISSUANCE DATE:	January 13, 2016
EXPIRATION DATES:	March 2, 2018 (to begin construction) March 2, 2020 (to obtain Approval to Place in Operation)

Shawn M. Clarke, P.E., Director  
Water Facilities Permitting Division

AJE

## Modifications:

- 12/12/2016 - Permit expiration date to begin construction extended from January 13, 2017, to June 13, 2017.
- 3/2/2017 - Project modifications for reduced Phase I cost include a smaller project footprint, UV disinfection, a smaller Phase I effluent storage lagoon, and removal of sludge holding and permanent dewatering facilities from the Phase I scope. Permit expiration dates extended, respectively.
- 6/9/2017 - Permit ownership has been transferred from Kiawah River Plantation Holdings, LP to Kiawah River Investments, LLC
- 3/26/2019 - Permit ownership has been transferred from Kiawah River Investments, LLC to Kiawah River Utility Company, Treatment Plant Classification has been corrected to Group III - Biological